

## CLAIMS

1        1. A computer implemented method for tracking movement  
2 of files within a network, the method comprising the steps  
3 of:

4            a mobility token manager on a source computer  
5                detecting an attempt to write a file to a  
6                target computer; and  
7            responsive to the detection, the mobility token  
8                manager writing a mobility token containing  
9                data concerning at least the file and the  
10               write operation to the target computer.

1        2. The method of claim 1 wherein:

2            the mobility token manager is instantiated within  
3                a file system filter driver.

1        3. The method of claim 1 wherein:

2            the mobility token manager is instantiated as at  
3                least one system call wrapper.

1        4. The method of claim 1 wherein:

2            the mobility token contains at least one datum  
3                concerning the source computer from a group  
4                of data consisting of:

5 an IP address;  
6 a computer name; and  
7 a primary domain controller name.

1 5. The method of claim 1 wherein:  
2 the mobility token contains at least one datum  
3 concerning the file from a group of data  
4 consisting of:  
5 a file name;  
6 a content-based hash value;  
7 a digital signature;  
8 a version number;  
9 a last modification date; and  
10 a last modification time.

1 6. The method of claim 1 wherein:  
2 the mobility token contains at least one datum  
3 concerning a user who has ownership of an  
4 application program attempting to write the  
5 file to the target computer, the datum being  
6 from a group of data consisting of:  
7 a user account name;  
8 a user account number; and  
9 a SID.

1       7. The method of claim 1 wherein:  
2             the mobility token contains at least one datum  
3                 concerning the attempt to write the file to  
4                 the target computer, the datum being from a  
5                 group of data consisting of:  
6                 a date of the attempted write operation; and  
7                 a time of the attempted write operation.

1       8. The method of claim 1 further comprising:  
2             the mobility token manager compressing at least  
3                 one mobility token.

1       9. The method of claim 1 further comprising:  
2             the mobility token manager encrypting at least  
3                 one mobility token.

1       10. The method of claim 1 further comprising:  
2             the mobility token manager hiding at least one  
3                 mobility token.

1       11. The method of claim 1 further comprising:  
2             the mobility token manager on the source computer  
3                 determining whether another mobility token  
4                 manager is running on the target computer;  
5                 and

6 the mobility token manager on the source computer  
7 only writing a mobility token to the target  
8 computer responsive to determining that  
9 another mobility token manager is running on  
10 the target computer.

1 12. The method of claim 1 further comprising:  
2 before writing a mobility token to the target  
3 computer, the mobility token manager  
4 determining whether a mobility token  
5 associated with the file exists;  
6 responsive to results of the determination, the  
7 mobility token manager performing a step  
8 from a group of steps consisting of:  
9 responsive to determining that an associated  
10 mobility token exists, writing  
11 information concerning at least the  
12 file and the write operation to the  
13 mobility token; and  
14 responsive to determining that an associated  
15 mobility token does not exist, creating  
16 an associated mobility token containing  
17 information concerning at least the  
18 file and the write operation.

1       13. The method of claim 1 further comprising:  
2             the mobility token manager writing at least one  
3             instruction directed to a target computer in  
4             the mobility token.

1       14. The method of claim 1 wherein:  
2             the mobility token contains an indication that  
3             the associated file has been scanned by an  
4             anti-malicious code scanning engine, and an  
5             indication of a malicious code definition  
6             file used for the anti-malicious code  
7             scanning.

1       15. A computer implemented method for tracking /  
2 movement of files within a network, the method comprising  
3 the steps of:  
4             a mobility token manager on a target computer  
5             detecting that a mobility token is being  
6             written to the target computer;  
7             the mobility token manager reading the mobility  
8             token; and  
9             the mobility token manager determining relevant  
10            information concerning a file associated  
11            with the mobility token.

1       16. The method of claim 15 further comprising:  
2             the mobility token manager merging data from the  
3             mobility token into a mobility token data  
4             store containing information from at least  
5             one other mobility token.

1       17. The method of claim 15 further comprising:  
2             the mobility token manager reading at least one  
3             instruction for a source computer in the  
4             mobility token; and  
5             the mobility token manager executing the at least  
6             one instruction.

1       18. The method of claim 15 further comprising:  
2             the mobility token manager reading the mobility  
3             token; and  
4             in response to contents of the mobility token,  
5             the mobility token manager rejecting the  
6             associated file.

1       19. The method of claim 15 further comprising:  
2             the mobility token manager reading the mobility  
3             token;

4 from the contents of the mobility token, the  
5 mobility token manager determining whether  
6 the associated file has been scanned by an  
7 anti-malicious code scanning engine using a  
8 current malicious code definition file; and  
9 in response to determining that the file has not  
10 been scanned using a current malicious code  
11 definition file, scanning the file for  
12 malicious code.

1 20. The method of claim 15 wherein:  
2 the mobility token manager is instantiated within  
3 a file system filter driver.

1 21. The method of claim 15 wherein:  
2 the mobility token manager is instantiated as at least  
3 one system call wrapper.

1 22. A computer system for tracking movement of files  
2 within a network, the computer system comprising:  
3 a software portion configured to detect an  
4 attempt to write a file to a target  
5 computer; and  
6 a software portion configured to write a mobility  
7 token containing data concerning at least

8           the file and the write operation to the  
9           target computer, responsive to the  
10          detection.

1       23. A computer readable medium containing a computer  
2       program product for tracking movement of files within a  
3       network, the computer program product comprising:  
4           program code for detecting that a mobility token  
5           is being written to a computer;  
6           program code for reading the mobility token; and  
7           program code for determining relevant information  
8           concerning a file associated with the  
9           mobility token.

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